

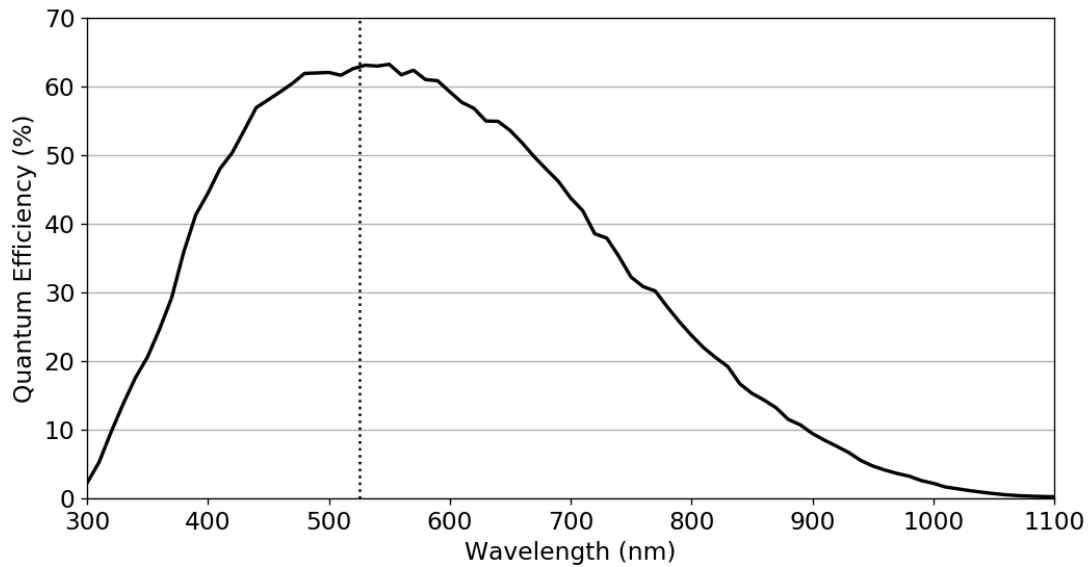
BLACKFLY[®]S

BFS-U3-50S5

Measurements are taken based on guidelines in the EMVA 1288 standard; the full definition can be found at EMVA.org. Camera settings are: maximum bit depth, 16-bit pixel format, and ISP disabled. The center wavelength is 525 nm unless otherwise noted. Results are captured at room temperature (20°C).

	Blackfly S BFS-U3-50S5M	Blackfly S BFS-U3-50S5C
Resolution	2448x2048	2448x2048
Sensor	Sony IMX264, CMOS, 2/3	Sony IMX264, CMOS, 2/3
Pixel Size (μm)	3.45	3.45
Firmware Version	1801.1.2.0	1801.1.2.0
ADC Bit Depth	12	12
Quantum Efficiency Mono (% at 525 nm)	61.52	N/A
Quantum Efficiency Blue (% at 470 nm)	N/A	47.20
Quantum Efficiency Green (% at 525 nm)	N/A	57.31
Quantum Efficiency Red (% at 630 nm)	N/A	45.30
Temporal Dark Noise (Read Noise) (e-)	2.25	2.28
Temporal Dark Noise (Read Noise) (DN)	13.19	13.25
Signal to Noise Ratio Maximum (dB)	40.28	40.37
Signal to Noise Ratio Maximum (Bits)	6.69	6.71
Absolute Sensitivity Threshold (γ)	4.47	4.86
Absolute Sensitivity Threshold (e-)	2.75	2.78
Saturation Capacity (Well Depth) (e-)	10658	10889
Saturation Capacity (Well Depth) (γ)	17324	19024
Dynamic Range (dB)	71.77	71.85
Dynamic Range (Bits)	11.92	11.93
Gain (e-/ADU)	0.17	0.17

Blackfly S BFS-U3-50S5M Spectral Response Curve



Blackfly S BFS-U3-50S5C Spectral Response Curve

